

INTERNATIONAL SEARCH REPORT

PCT/GB2004/000941

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B62M11/16 B62K25/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B62K B62M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 198 40 576 A (SRAM DE GMBH) 9 March 2000 (2000-03-09) column 2, line 15 - line 45; claims; figures	1-10, 12-23
Y	EP 1 270 395 A (YAMAHA MOTOR CO LTD) 2 January 2003 (2003-01-02) column 3, line 34 - line 51; figure 12	1-10, 12-23
Y	GB 2 171 656 A (SANDERS MARK ANDREW) 3 September 1986 (1986-09-03) claims 1,19-21; figures	3
Y	US 4 659 097 A (KUEPPER GERD ET AL) 21 April 1987 (1987-04-21) claims; figures 6,7	8-10,17, 18,21-23
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"8" document member of the same patent family

Date of the actual completion of the international search

18 June 2004

Date of mailing of the international search report

03 SEP 2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Grunfeld, M

INTERNATIONAL SEARCH REPORT

PCT/GB2004/000941

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely: ...
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-23

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

PCT/GB2004/000941

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 19840576	A	09-03-2000	DE 19840576 A1	09-03-2000
EP 1270395	A	02-01-2003	JP 2003002277 A	08-01-2003
			CN 1394767 A	05-02-2003
			EP 1270395 A2	02-01-2003
			TW 550208 B	01-09-2003
			US 2003010551 A1	16-01-2003
GB 2171656	A	03-09-1986	AT 44695 T	15-08-1989
			AU 576288 B2	18-08-1988
			AU 5511486 A	24-09-1986
			CA 1259352 A1	12-09-1989
			DE 3664440 D1	24-08-1989
			DK 507486 A	23-10-1986
			EP 0253809 A1	27-01-1988
			WO 8605155 A1	12-09-1986
			HK 4789 A	27-01-1989
			JP 7017222 B	01-03-1995
			JP 62501833 T	23-07-1987
			NO 864282 A	27-10-1986
			US 4718688 A	12-01-1988
US 4659097	A	21-04-1987	EP 0187170 A1	16-07-1986
			AT 36997 T	15-09-1988
			DE 3473861 D1	13-10-1988
			JP 61157481 A	17-07-1986
FR 2618402	A	27-01-1989	FR 2618402 A1	27-01-1989
DE 3804342	A	24-08-1989	DE 3804342 A1	24-08-1989
			DE 3812510 A1	26-10-1989
DE 880712	C	25-06-1953	NONE	
EP 1142780	A	10-10-2001	JP 2001278160 A	10-10-2001
			CN 1318490 A	24-10-2001
			EP 1142780 A2	10-10-2001
			TW 491788 B	21-06-2002
			US 2001045723 A1	29-11-2001

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PT/5459999	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/GB2004/000941	International filing date (day/month/year) 05/03/2004	(Earliest) Priority Date (day/month/year) 31/03/2003
Applicant KARBON KINETICS LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).

3. ☒ Unity of invention is lacking (see Box III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 3

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2004/000941

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-23

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-23

Bicycle, frame and single sided tubular rear arm housing the transmission

2. claims: 24-30

Hub with releasable mounting elements

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/000941

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B62M11/16 B62K25/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B62K B62M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 198 40 576 A (SRAM DE GMBH) 9 March 2000 (2000-03-09) column 2, line 15 - line 45; claims; figures	1-10, 12-23
Y	EP 1 270 395 A (YAMAHA MOTOR CO LTD) 2 January 2003 (2003-01-02) column 3, line 34 - line 51; figure 12	1-10, 12-23
Y	GB 2 171 656 A (SANDERS MARK ANDREW) 3 September 1986 (1986-09-03) claims 1,19-21; figures	3
Y	US 4 659 097 A (KUEPPER GERD ET AL) 21 April 1987 (1987-04-21) claims; figures 6,7	8-10,17, 18,21-23
	----- -/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

18 June 2004

Date of mailing of the international search report

03 SEP 2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Grunfeld, M

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/000941

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FR 2 618 402 A (PARYZAK RENE) 27 January 1989 (1989-01-27) figure 1 -----	6,15
Y	DE 38 04 342 A (KLAUE HERMANN) 24 August 1989 (1989-08-24) claims; figures -----	9,17,18, 21-23
A	DE 880 712 C (KLAUE HERMANN DR-ING) 25 June 1953 (1953-06-25) claims; figures -----	7,13,16, 20
A	EP 1 142 780 A (SONY CORP) 10 October 2001 (2001-10-10) claims; figures -----	1,12,19

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/000941

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 19840576	A	09-03-2000	DE 19840576 A1	09-03-2000
EP 1270395	A	02-01-2003	JP 2003002277 A	08-01-2003
			CN 1394767 A	05-02-2003
			EP 1270395 A2	02-01-2003
			TW 550208 B	01-09-2003
			US 2003010551 A1	16-01-2003
GB 2171656	A	03-09-1986	AT 44695 T	15-08-1989
			AU 576288 B2	18-08-1988
			AU 5511486 A	24-09-1986
			CA 1259352 A1	12-09-1989
			DE 3664440 D1	24-08-1989
			DK 507486 A	23-10-1986
			EP 0253809 A1	27-01-1988
			WO 8605155 A1	12-09-1986
			HK 4789 A	27-01-1989
			JP 7017222 B	01-03-1995
			JP 62501833 T	23-07-1987
			NO 864282 A	27-10-1986
			US 4718688 A	12-01-1988
US 4659097	A	21-04-1987	EP 0187170 A1	16-07-1986
			AT 36997 T	15-09-1988
			DE 3473861 D1	13-10-1988
			JP 61157481 A	17-07-1986
FR 2618402	A	27-01-1989	FR 2618402 A1	27-01-1989
DE 3804342	A	24-08-1989	DE 3804342 A1	24-08-1989
			DE 3812510 A1	26-10-1989
DE 880712	C	25-06-1953	NONE	
EP 1142780	A	10-10-2001	JP 2001278160 A	10-10-2001
			CN 1318490 A	24-10-2001
			EP 1142780 A2	10-10-2001
			TW 491788 B	21-06-2002
			US 2001045723 A1	29-11-2001